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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,496	10/17/2001	Keith Mario Torpy	10032.00	3949
20686	7590 03/13/2003			
DORSEY & WHITNEY, LLP INTELLECTUAL PROPERTY DEPARTMENT 370 SEVENTEENTH STREET SUITE 4700 DENVER, CO 80202-5647			EXAMINER	
			FASTOVSKY, LEONID M	
			ART UNIT	PAPER NUMBER
, -			3742	
			DATE MAILED: 03/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		110			
	Application No.	Applicant(s)			
	09/787,496	TORPY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Leonid M Fastovsky	3742			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be a within the statutory minimum of thirty (30) de will apply and will expire SIX (6) MONTHS fro cause the application to become ARANDON	timely filed ays will be considered timely. m the mailing date of this communication.			
1) Responsive to communication(s) filed on 17 C	October 2001 .				
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.				
3) Since this application is in condition for allowa	nce except for formal matters,	prosecution as to the merits is			
closed in accordance with the practice under <i>E</i> Disposition of Claims	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
4)⊠ Claim(s) 1-28 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-28</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>17 October 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. ☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	7 33 12				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.		y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. New corrected drawings are required in this application because the submitted drawings were informal. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Specification

This application does not contain an abstract of the disclosure as required by 37
 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1-3, 5, 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyata (6,486,447).

Miyata teaches a thin film electrical heating element (figures 3-10) including a layer of an electrically conductive metal oxide on an electrically insulating substrate (Col.12. lines 67-70), the metal oxide being doped with at least one rear element.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 11-12, and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyata (6,486,447) in view of Auding et al (4,889,974). Miyata discloses substantially the claimed features including a method for manufacture of a thin film heating element (Figures 4-10) including the step of depositing a layer of metal oxide onto an electrically insulating substrate (Col. 12, lines 20-24) containing at least one rear element, but does not disclose that a deposit has been done by pyrolysis. Auding et al shows the pyrolysis method. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a pyrolysis as taught by Auding et al to improve performance of the heating element.
- 8. Claims 4, 6-7, 13-17, and 23-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyata in view Auding et al and further in view of Sasaki et al (m # cb). (5,493,266).

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Miyata in view of Auding et al discloses substantially the claimed features including a

thin film heating element including a layer of an electrically conductive metal oxide on a

electrically insulating substrate, the metal oxide being doped with at least one rear earth

element, but does not disclose cerium, lanthanum, a donor and an acceptor. Sasaki et

al shows cerium, lanthanum, a donor and an acceptor (Col. 1, lines 23-40). It would

have been obvious to one having ordinary skill in the art at the time the invention was

made to use cerium, lanthanum, a donor being antimony and an acceptor being zinc as

taught by Sasaki et al to improve performance of the heating element.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Leonid M Fastovsky whose telephone number is 703-

306-5482. The examiner can normally be reached on M-Th. 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Teresa Walberg can be reached on 703-3081327. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9302

for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0861.

Leonid M Fastovsky

Examiner

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lmf

March 6, 2003

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